PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHOR	RITY				
То:		PCT			
see form PCT/ISA/220	D	WRITTEN OPINION OF NTERNATIONAL SEARCHING (PCT Rule 43 <i>bis</i> .1) atte of mailing ay/month/year) see form PCT/ISA/210 (second	AUTHORITY)		
Applicant's or agent's file reference					
see form PCT/ISA/220	Se	OR FURTHER ACTION e paragraph 2 below			
FC1/052009/036965	ternational filing date (day/n 2.03.2009	14.03.2008	year)		
International Patent Classification (IPC) or both INV. A61K9/14 A61K31/565 Applicant		PC	·		
ELAN PHARMA INTERNATIONAL LT	D.		•		
This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220.					
For further details, see notes to Form F	PCT/ISA/220.				
ame and mailing address of the ISA:	Date of completion	of Authorized Officer			
D-80298 Munich Tel. +49 89 2399 - 0 Fax: +49 89 2399 - 4465	this opinion see form PCT/ISA/210	Giménez Miralles, J Telephone No. +49 89 2399-8655			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2009/036965

Box No. I Basis of the opinion			
With regard to the language, this opinion has been established on the basis of:			
the international application in the language in which it was filed			
a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1 (b)).			
2. This opinion has been established taking into account the rectification of an obvious mistake authorized by or notified to this Authority under Rule 91 (Rule 43bis.1(a))			
 With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: 			
a. type of material:			
☐ a sequence listing			
☐ table(s) related to the sequence listing			
b. format of material:			
☐ on paper			
☐ in electronic form			
c. time of filing/furnishing:			
☐ contained in the international application as filed.			
filed together with the international application in electronic form.			
furnished subsequently to this Authority for the purposes of search.			
4. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional appropriate, were furnished.			
Additional comments:			

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2009/036965

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of
	□ the entire international application
l	☑ claims Nos. <u>1-86 in part</u>
ı	pecause:
C	the said international application, or the said claims Nos. relate to the following subject matter which does not require an international search (specify):
C	the description, claims or drawings (indicate particular elements below) or said claims Nos. are so uncleathat no meaningful opinion could be formed (specify):
•	the claims, or said claims Nos. 1-86 in part are so inadequately supported by the description that no meaningful opinion could be formed (specify):
	see separate sheet
Ø	no international search report has been established for the whole application or for said claims Nos. <u>1-86 in part</u>
	prescribed time limit:
	furnish a sequence listing on paper complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	furnish a sequence listing in electronic form complying with the standard provided for in Annex C of the Administrative Instructions, and such listing was not available to the International Searching Authority in a form and manner acceptable to it.
	pay the required late furnishing fee for the furnishing of a sequence listing in response to an invitation under Rules 13 <i>ter</i> .1(a) or (b).
	a meaningful opinion could not be formed without the tables related to the sequence listings; the applicant did not, within the prescribed time limit, furnish such tables in electronic form complying with the technical requirements provided for in Annex C-bis of the Administrative Instructions, and such tables were not available to the International Searching Authority in a form and manner acceptable to it.
	the tables related to the nucleotide and/or amino acid sequence listing, if in electronic form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.
	See Supplemental Box for further details

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US2009/036965

В	ox No. IV Lack of unity	of invention			
1. 🗆			/206) to pay additional fees, the applicant has, within the		
	paid additional f	ees			
	paid additional fees under protest and, where applicable, the protest fee				
	paid additional fees under protest but the applicable protest fee was not paid				
	☐ not paid addition	al fees	, , and protoct too was not paid		
2. 🖾	This Authority found that the applicant to pay addi	the requirement of tional fees.	unity of invention is not complied with and chose not to invite		
3. This	s Authority considers that	the requirement of L	unity of invention in accordance with Rule 13.1, 13.2 and 13.3 i		
	complied with				
⊠r	not complied with for the fo	ollowing reasons:			
	see separate sheet				
4. Con	sequently, this report has	been established in	respect of the following parts of the international application:		
⊠a	ll parts.	· ·	respect of the following parts of the international application:		
	ne parts relating to claims	Nos.			
	-				
Box indu	No. V Reasoned state strial applicability; citati	ment under Rule 4 ons and explanation	3 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or one supporting such statement		
1. State	ment		. , same of the sa		
Nove	Ity (N)	Yes: Claims	•		
		No: Claims	<u>1-86</u>		
Inven	tive step (IS)	Yes: Claims			
		No: Claims	<u>1-86</u>		
indust	trial applicability (IA)	Yes: Claims	<u>1-53</u>		
		No: Claims	<u>54-86</u>		
. Çitatio	ns and explanations				

Form PCT/ISA/237 (April 2007)

see separate sheet

Re Item III

See International search report (ISR), Box II.2 and Further Information sheet PCT/ISA/210.

Re Item IV

The ISA considers that the international application does not comply with the requirement of unity of the invention as set forth in Rules 13.1, 13.2 and 13.3 PCT for the following reasons:

The inventive concept of formulating an antiangiogenic agent in stabilized nanoparticulate (nanocrystalline) dispersion wherein the nanoparticles have effective average particle size of less than 2000 nm and comprise a surface stabilizer associated therewith is not novel (see documents D1 to D5 cited in the ISR). Therefore, lack of unity arises as each single angiogenesis inhibitor as defined in claim 2 represents a separate invention, the multiple inventions covered by claim 2 not sharing any special technical feature(s) making a novel and inventive contribution over the prior art within the meaning of Rule 13.2 PCT.

Re Item V

- The relevant prior art documents are referred to as D1 to D9 as in the order of appearance in the International Search Report (ISR). Unless otherwise indicated, reference is made to the passages of said documents cited in the ISR.
- Citations and explanations supporting the statement with regard to novelty (N), inventive step (IS) and industrial applicability (IA) (Rule 43bis.1(a)(i) and (b) PCT):
- (N) The subject-matter of claims 1, 34 and 54 is not novel because it is anticipated by the prior art (Article 33(2) PCT). D1-D5 anticipate solid nanoparticulate dispersions of angiogenesis inhibitors (2methoxyestradiol, tamoxifen, medroxyprogesterone, paclitaxel, thalidomide, etc.) having effective average particle size of less than 2000 nm, and a non-crosslinked polymeric surface stabilizer adsorbed onto / associated with the surface of the

nanoparticles, in particular polymers such as HPC, HPMC, copovidonum, etc. In particular, D1 and D2 anticipate exactly same subject-matter as claimed in present claims. Accordingly, nothing new can be seen in the subject-matter of present application.

- (IS) The subject-matter of claims 1, 34 and 54 is not considered to involve an inventive step (Article 33(3) PCT) for the reasons mentioned above.
- (IA) The subject-matter of claims 1-53 is considered to be industrially applicable (Article 33(4) PCT). The possibility of industrial application is beyond any doubt. The subject-matter of claims 54-86 is not considered to be industrially applicable as it cannot be used in "industry" as defined in the Paris Convention for the Protection of Industrial Property (Article 33(4) PCT).
- Reservation statement regarding patentability:

The patentability of claims to methods of medical treatment (present claims 54-86) can be dependent upon the formulation of the claims. The EPO, for example, does not recognise as patentable claims to the use of a compound in medical treatment, but may allow claims to a product, in particular substances or compositions for use in a first or further medical treatment.

Possible steps after receipt of the international search report (ISR) and written opinion of the International Searching Authority (WO-ISA)

General information

For all international applications filed on or after 01/01/2004 the competent ISA will establish an ISR It is accompanied by the WO-ISA. Unlike the former written opinion of the IPEA (Rule 66.2 PCT), the WO-ISA is not meant to be responded to, but to be taken into consideration for further procedural steps. This document explains about the possibilities.

Art. 19 PCT

Amending claims Within 2 months after the date of mailing of the ISR and the WO-ISA the applicant may file amended claims under Art. 19 PCT directly with the International Bureau of WIPO. The PCT reform of 2004 did not change this procedure. For further information please see Rule 46 PCT as well as form PCT/ISA/220 and the corresponding Notes to form PCT/ISA/220.

Filing a demand for international preliminary examination

In principle, the WO-ISA will be considered as the written opinion of the IPEA. This should, in many cases, make it unnecessary to file a demand for international preliminary examination. If the applicant nevertheless wishes to file a demand this must be done before expiry of 3 months after the date of mailing of the ISR/WO-ISA or 22 months after priority date, whichever expires later (Rule 54bis PCT). Amendments under Art. 34 PCT can be filed with the IPEA as before, normally at the same time as filing the demand (Rule 66.1 (b) PCT).

If a demand for international preliminary examination is filed and no comments/amendments have been received the WO-ISA will be transformed by the IPEA into an IPRP (International Preliminary Report on Patentability) which would merely reflect the content of the WO-ISA. The demand can still be withdrawn (Art. 37 PCT).

Filing informal comments

After receipt of the ISR/WO-ISA the applicant may file informal comments on the WO-ISA directly with the International Bureau of WIPO. These will be communicated to the designated Offices together with the IPRP (International Preliminary Report on Patentability) at 30 months from the priority date. Please also refer to the next box.

End of the international phase

At the end of the international phase the International Bureau of WIPO will transform the WO-ISA or, if a demand was filed, the written opinion of the IPEA into the IPRP, which will then be transmitted together with possible informal comments to the designated Offices. The IPRP replaces the former IPER (international preliminary examination report).

Relevant PCT Rules and more information

Rule 43 PCT, Rule 43bis PCT, Rule 44 PCT, Rule 44bis PCT, PCT Newsletter 12/2003, OJ 11/2003, OJ 12/2003